

NAS NORTH ISLAND - NAVY REGION SOUTHWEST NAVY ENVIRONMENTAL LEADERSHIP PROGRAM

CONSERVATION

WATERLESS URINAL RETRO-FIT PROJECT

LEAD ACTIVITY

Naval Aviation Depot (NADEP) North Island

STATUS

Completed

MISSION

Water conservation

DESCRIPTION

A limited number of Naval Aviation Depot (NADEP) North Island bathroom facilities are currently equipped with No-Flush urinals manufactured by the Waterless Company of San Diego. NADEP is testing the urinals to incorporate water conservation efforts on North Island. These urinals attach to standard plumbing stubs, but do not require water to operate. Urine drains by gravity from the bowl through a patented liquid seal that provides an effective bacteria and odor barrier. The specific gravity of the liquid seal is lower than the specific gravity of the urine, and the difference in specific gravity allows the urine to drain through the liquid seal and into the sewer pipe.

On average, a single-flush urinal uses 45,000 gallons of water annually. It costs approximately \$180 per year to operate a single urinal given the current cost of water at NAS North Island, which is \$4 per 1,000 gallons. Additional cost savings are expected through reduced plumbing and maintenance costs. The purchase price of each No-Flush unit is \$438. Based on these figures, the projected payback period is 2 to 3 years. Preliminary testing of these units indicates that they perform satisfactorily in daily use. NADEP will continue to monitor their success.

UPDATED: 01/23/02